## An investigation into bot detection, using network traffic analysis.

Jasmin Kaur Rai October 2019

## Electronics and Computer Science Faculty of Physical Sciences and Engineering

University of Southampton

Project supervisor: Dr Nawfal Fadhel Second examiner:

A report submitted for the award of

## Contents

1	Abstract	3
2	Acknowledgements	3
3	Introduction 3.1 Aims and Objectives	<b>3</b> 3
4	Background 4.1 Previous/Related work 4.2 IoT vulnerabilities 4.3 Definition of botnet 4.4 Detecting bots	3 3 3 3
5	An analysis and specification of the solution to the problem	3
6	Design 6.1 Network Structure	<b>3</b>
7	Implementation	3
8	Testing strategy and results	3
9	A critical evaluation	3
10	Conclusions and future work	3
11	References to the literature	3
<b>12</b>	Appendices	3

- 1 Abstract
- 2 Acknowledgements
- 3 Introduction
- 3.1 Aims and Objectives
- 3.2 Scope of Research
- 4 Background
- 4.1 Previous/Related work
- 4.2 IoT vulnerabilities
- 4.3 Definition of botnet
- 4.4 Detecting bots
- 5 An analysis and specification of the solution to the problem
- 6 Design
- 6.1 Network Structure
- 7 Implementation
- 8 Testing strategy and results
- 9 A critical evaluation
- 10 Conclusions and future work
- 11 References to the literature
- 12 Appendices